




**Product:** [29512](#) 

VFD 300% Gnd, 3C+G #12 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd, 1 Pr #16 Str TC XLPE IS, Blk PVC Jkt, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable

 [Request Sample](#)

**Product Description**

Belden 300% Ground Flexible VFD, 3 Conductor 12AWG (65x30) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, 1 Pair 16AWG (26x30) Tinned Copper XLPE Beldfoil, Black PVC Outer Jacket, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable 1000V CSA AWM I/II A/B 600V CIC TC SUN RES DIR BUR Oil Resistant

**Technical Specifications**

**Product Overview**

Suitable Applications:	Variable Frequency Drives (VFD); AC Motor and Drive Systems
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**Construction Details**

**Conductor**

Element	Number of Element	AWG	Stranding	Material	Notes
Conductor(s)	3	12	65x30	TC - Tinned Copper	
Pair(s)	1	16	26x30	TC - Tinned Copper	Used as control or brake pair
Ground	1	12	65x30	TC - Tinned Copper	

**Insulation**

Element	Material	Thickness [in.]	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.046	Black and Numbered
Pair(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.032	Black, White
Ground	PVC - Polyvinyl Chloride	0.047	Green/Yellow Stripe

**Inner Shield Material**

Element	Shield Type	Material	Coverage	Drainwire Type	Notes
Pair(s)	Tape	Bi-Laminate (Aum/Poly)	1%	18 AWG (19x30) TC	Foil-In, Shorting fold

**Outer Shield Material**

Shield Type	Material	Coverage
Tape + Braid	Tri-Laminate (Alum+Poly+Alum) + Tinned Copper (TC)	100% + 85%

Table Notes: Foil+braid shield on power conductors & Ground only; extra pair has own foil shield.

**Outer Jacket Material**

Material	Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.080 in	0.895 in	Yes

Cable Diameter (Nominal): 0.895 in

**Electrical Characteristics**

**Electricals**

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Conductor(s)	0.079 Ohm/1000ft	4.99 Ohm/1000ft	46 pF/ft	47 pF/ft	83 pF/ft	37 Ohm	0.55%	30 Amps per Conductor at 30°C (per NEC)
Pair(s)	4 Ohm/1000ft	4.99 Ohm/1000ft	34 pF/ft					

Ground	1.6 Ohm/1000ft	26 pF/ft	47 pF/ft				
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#### Voltage

UL Voltage Rating
600 V (TC, C(UL) TC), 1000 V (UL Flexible Motor Supply Cable, CSA AWM I/II A/B)

### Mechanical Characteristics

#### Temperature

UL Rating	Operating
90°C Dry, 90°C Wet	-40°C To +90°C

#### Bend Radius

Stationary Min.	Installation Min.
9 in	10.7 in

Max. Pull Tension:	538 lbs
Bulk Cable Weight:	373 lbs/1000ft

### Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1685 UL Loading, FT4, FT4, 1202, 383 Vertical Tray Flame Test (70,000 BTU)
NEC / UL Compliance:	Article 336, TC-ER, RHW-2, UL Flexible Motor Supply Cable
AWM Compliance:	I/II A/B
CEC / C(UL) Compliance:	CIC, TC
ICEA Compliance:	S-95-658
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	P-07-KA070003

### History

Update and Revision:	Revision Number: 0.377 Revision Date: 07-30-2020
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